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105 PAGES

TCS - 9178/65

DATE July 1965

CENTRAL INTELLIGENCE AGENCY

PHOTOGRAPHIC INTELLIGENCE DIVISION

PHOTOGRAPHIC INTELLIGENCE REPORT

CHENG CHOU - P'ING HSIANG RAILROAD LINE STUDY CHINA

CIA/PIR-5028/65

Declass Review by NIMA/DOD

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This document contains classified information affecting the national security of the United States within the meaning of the espionage laws U. S. Code Title 18, Sections 793 and 794. The law prohibits its transmission or the revelation of its contents in any manner to an unauthorized person, as well as its use in any manner prejudicial to the safety or interest of the United States or for the benefit of any foreign government to the detriment of the United States. It is to be seen only by personnel especially indoctrinated and authorized to receive TALENT-KEYHOLE information. Its security must be maintained in accordance with KEYHOLE and TALENT regulations.

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CHENG CHOU - P'ING HSIANG RAILROAD LINE STUDY

The Cheng Chou - P'ing Hsiang Rail Line Study was made to establish a basic from which future photography may be compared. Such a comperison might be used as an indicator of military intentions and level of economic activity.

In this study a count of all trains observed was recorded, along with the location, type, speed (MPH), direction and number of cars of each freight train. Also a study of the rail yards located in the major cities along the rail line was performed. The capacity of each yard was estimated in terms of freight cars. Freight cars present in the yards are presented as percent of capacity as seen on each mission. Evidence of new construction at yards was checked on each mission, and none was found. Each yard was typed either A-classification or B-freight.

A total of 21 missions were used in this study. Only missions covering a minimum of 75 miles of rail line were used for the rail line study.

The results of the railroad line study are presented as mission reports. Each mission will have a coverage map, train table, and maps annotated showing each train and its direction.

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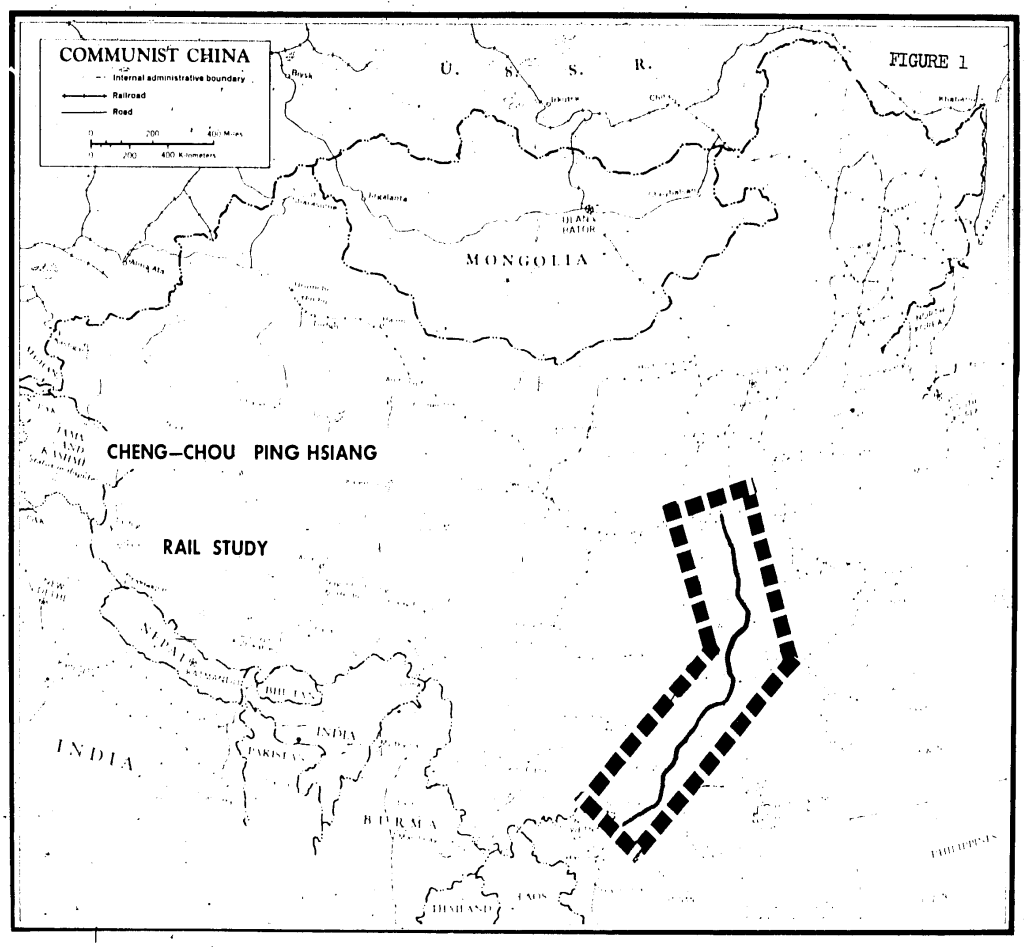

FIGURE 1

TOP SECRET RUFF

TCS - 9176/65
PIR - 5028/65

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25X1D

TOP SECRET RUFF

FIGURE 2

TOP SECRET RUFF

TCS - 9178/65
PIR - 5028/65

25X1D

Approximately 200 miles of the Cheng Chou - P'ing Hsiang Rail Line from 26 53N - 112 36E to 24 41N - 109 51E was observed intermittently through scattered clouds by [redacted]

The results of this study are presented in the following table. The location and direction of each train is annotated on the accompanying maps.

NO.	TYPE	LOCATION	DIRECTION	SPEED	NO. CARS
1	Freight	26 53N - 112 36E	N	*	35
2	Freight	26 53N - 112 36E	S	*	20
3	Freight	26 53N - 112 36E	S	*	31
4	Freight	26 51N - 112 17E	S	*	28
5	Freight	26 46N - 111 52E	S	*	15
6	Freight	26 24N - 111 24E	S	0	35
7	Freight	26 24N - 111 24E	N	0	39
8	Freight	26 08N - 111 13E	S	18	33
9	Freight	26 05N - 111 12E	S	0	39
10	Freight	26 05N - 111 12E	N	5	29
11	Freight	25 44N - 110 44E	N	19	37
12	Freight	25 24N - 110 17E	S	0	35
13	Freight	25 19N - 110 17E	N	0	40
14	Freight	25 19N - 110 17E	S	0	29
15	*	25 05N - 110 02E	N	*	12

* Could not be determined.

25X5
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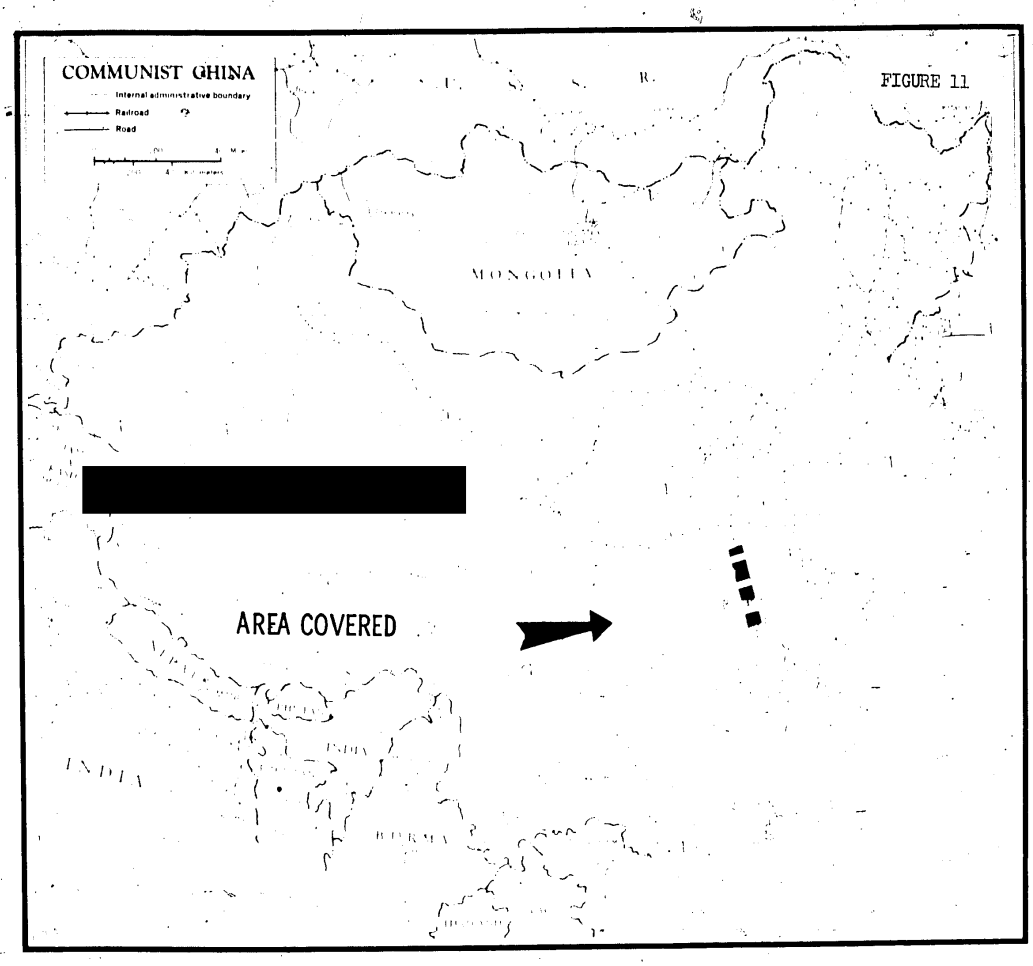

FIGURE 11

25X1D

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TOP SECRET RUFF

TCS - 9176/65
PIR - 5028/65

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TOP SECRET RUFF

TCS - 9178/65
CIA/PIR - 5028/65

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25X1D

Approximately 225 miles of the Cheng Chou - P'ing Hsiang Rail Line from 32 45N - 114 03E to 30 00N - 114 06E was covered on KEYHOLE [redacted] 25X1D
[redacted]

The results of this study are presented in the following table. The location and direction of each train is annotated on the accompanying maps. The lack of direction arrows indicates that the trains direction could not be determined.

NO.	TYPE	LOCATION	DIRECTION	SPEED	NO. CARS
1	Freight	32 37N - 114 03E	N	*	*
2	*	32 21N - 114 03E	S	*	*
3	Freight	32 17N - 114 04E	N	*	25
4	Freight	32 07N - 114 05E	N	21	21
5	Freight	32 07N - 114 05E	*	0	*
6	Freight	32 00N - 114 05E	S	*	23
7	Freight	31 50N - 114 03E	S	0	*
8	*	31 42N - 114 02E	N	*	42
9	Freight	31 30N - 113 58E	N	17	47
10	Freight	31 28N - 113 57E	S	16	44
11	Freight	30 58N - 113 55E	S	14	*
12	*	30 56N - 114 08E	N	28	*
13	*	30 42N - 114 21E	S	26	55
14	Freight	30 35N - 114 17E	N	12	45
15	Freight	30 19N - 114 17E	N	29	*
16	*	30 09N - 114 19E	S	*	30
17	*	30 01N - 114 21E	S	28	30

* Could not be determined.

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TOP SECRET RUFF

25X5

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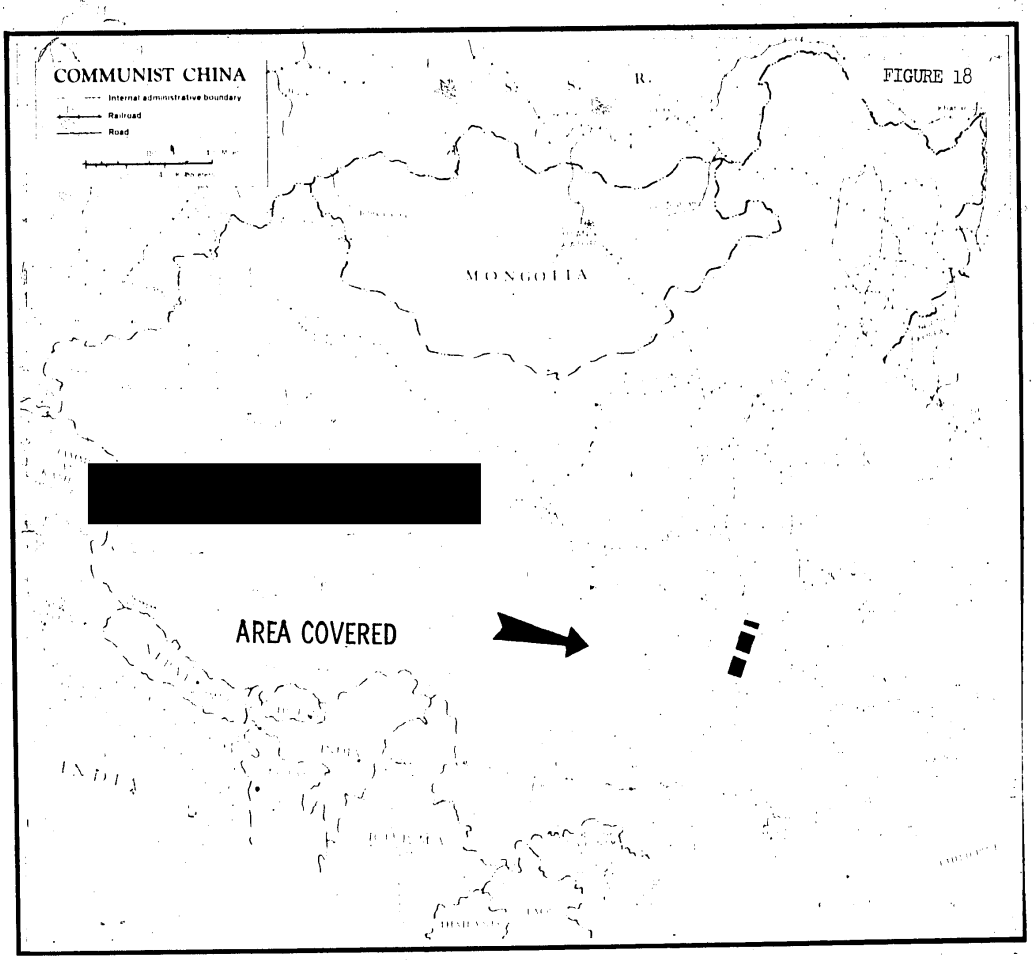

FIGURE 18

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

TCS - 9178/65
PIR - 5028/65

TOP SECRET RUFF

TCS - 9178/65
CIA/PIR-5028/65

CIA, PHOTOGRAPHIC INTELLIGENCE DIVISION

25X1D

25X1D

Approximately 220 miles of the Cheng Chou - P'ing Hsiang Rail Line from 31 57N - 114 06E to 28 41N - 113 03E was covered on KEYHOLE [redacted]

The results of this study are presented in the following table. The location and direction of each train is annotated on the accompanying maps. The lack of direction arrows indicated that the direction of train could not be determined.

NO.	TYPE	LOCATION	DIRECTION	SPEED	NO. CARS
1	Freight	31 35N - 113 57E	N	*	48
2	Freight	31 04N - 113 55E	N	14	45
3	Freight	30 50N - 114 17E	*	0	37
4	Freight	30 34N - 114 17E	S	*	31
5	Freight	30 27N - 114 18E	S	*	37
6	Freight	30 10N - 114 20E	S	*	30
7	Freight	29 44N - 113 58E	S	10	35
8	Freight	29 43N - 113 52E	*	0	45
9	Freight	29 35N - 113 44E	*	0	45
10	Freight	29 31N - 113 20E	S	18	43
11	Freight	29 31N - 113 17E	*	0	32
12	Freight	29 25N - 113 10E	N	*	40
13	Freight	29 18N - 113 04E	S	24	34
14	Passenger	29 12N - 113 07E	S	32	14
15	Freight	28 41N - 113 03E	N	*	30

* Could not be determined.

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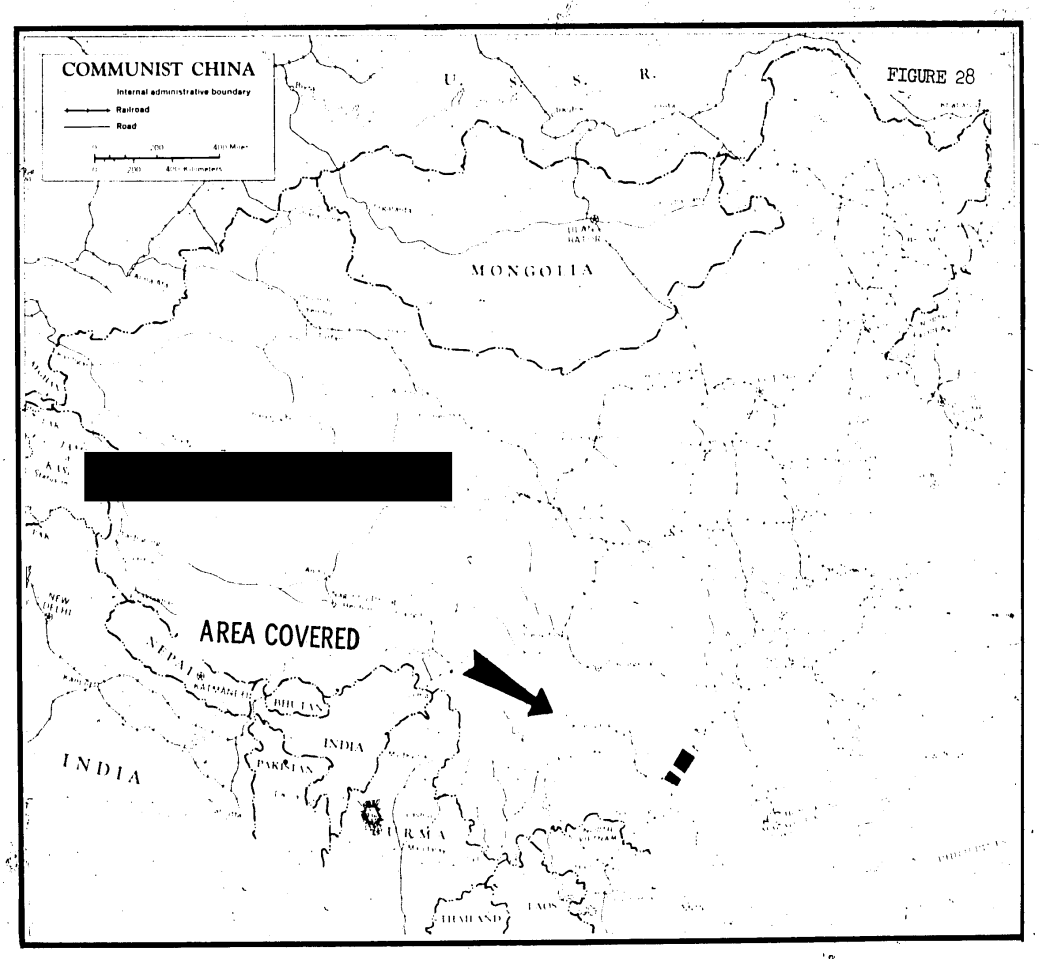

FIGURE 28

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

TCS - 9178/65
PIR - 5028/65

CIA, PHOTOGRAPHIC INTELLIGENCE DIVISION

25X1D

25X1D

Approximately 155 miles of the Cheng Chou - P'ing Hsiang Rail Line from 25 36N - 110 33E to 24 26N - 109 42E was covered on [redacted]

The results of this study are presented in the following table. The location and direction of each train is annotated on the accompanying maps.

NO.	TYPE	LOCATION	DIRECTION	SPEED	NO. CARS
1	Freight	25 36N - 110 33E	N	*	11
2	Passenger	25 27N - 110 21E	N	0	--
3	Freight	25 26N - 110 20E	S	0	42
4	Freight	25 23N - 110 18E	N	19	31
5	Freight	25 15N - 110 16E	N	23	34
6	Freight	25 13N - 110 11E	S	0	35
7	Freight	24 50N - 109 59E	N	0	19
8	Freight	24 49N - 109 59E	N	11	37
9	Freight	24 40N - 109 51E	S	*	36
10	Freight	24 40N - 109 51E	N	*	40
11	Freight	24 27N - 109 42E	N	0	18
12	Passenger	24 26N - 109 42E	S	12	--

* Could not be determined.

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25X1D

TOP SECRET RUFF

FIGURE 33

TOP SECRET RUFF

TCS - 9178/65
PIR - 5028/65

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TCS - 9178/65
CIA/PIR-5028/65

CIA, PHOTOGRAPHIC INTELLIGENCE DIVISION

25X1D 25X1D

Approximately 145 miles of the Cheng Chou - P'ing Hsiang Rail Line from 28 50N - 113 08E to 27 06N - 112 48E was covered on [redacted] [redacted]

The results of this study are presented in the following table, the location and direction of each train is annotated on the accompanying maps

NO.	TYPE	LOCATION	DIRECTION	SPEED	NO. CARS
1	Freight	28 40N - 113 02E	S	*	28
2	Freight	28 36N - 113 02E	S	*	40
3	Freight	28 30N - 113 00E	N	0	43
4	Freight	28 18N - 112 58E	S	20	26
5	Freight	28 12N - 112 58E	N	10	42
6	Passenger	28 09N - 112 57E	S	21	*
7	Freight	27 55N - 113 04E	N	0	35
8	Freight	27 54N - 113 04E	S	12	35
9	Freight	27 46N - 113 09E	S	0	42
10	Freight.	27 21N - 112 59E	S	28	36
11	Passenger	27 15N - 112 54E	S	39	*
12	Freight	27 09N - 112 52E	N	0	43

* Could not be determined.

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25X1D

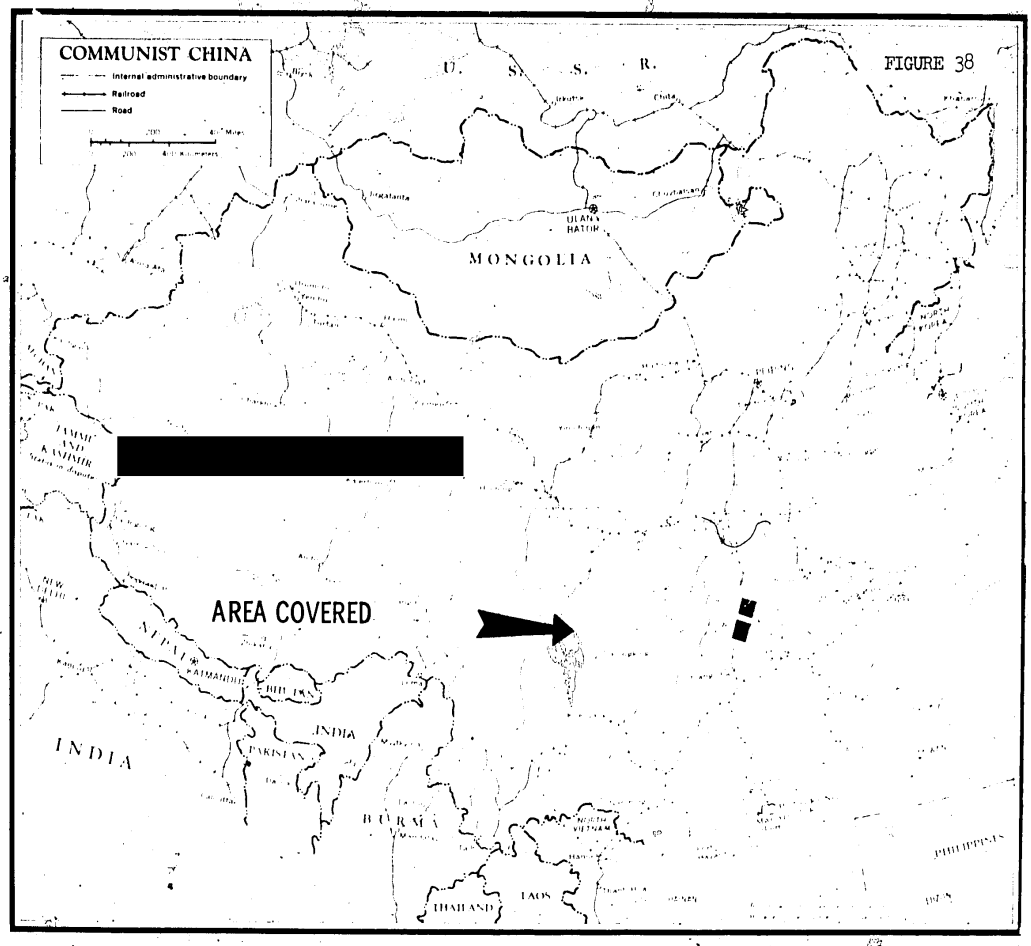

FIGURE 38

TOP SECRET RUFF

TCS - 9178/65
PIR - 5028/65

25X1D

25X1D

Approximately 75 miles of the Cheng Chou - P'ing Hsiang Rail Line from 30 57N - 114 07E to 30 16N - 114 19E) was covered on [redacted]

The results of this study are presented in the following table. The location and direction of each train is annotated on the accompanying maps.

NO.	TYPE	LOCATION	DIRECTION	SPEED	NO. CARS
1	Freight	30 57N - 114 07E	N	0	43
2	Freight	30 54N - 114 12E	S	0	12
3	Freight	30 35N - 114 17E	S	0	33
4	Freight	30 34N - 114 16E	S	5	42
5	Freight	30 33N - 114 16E	N	21	12
6	Freight	30 16N - 114 19E	S	*	24

* Could not be determined.

25X5
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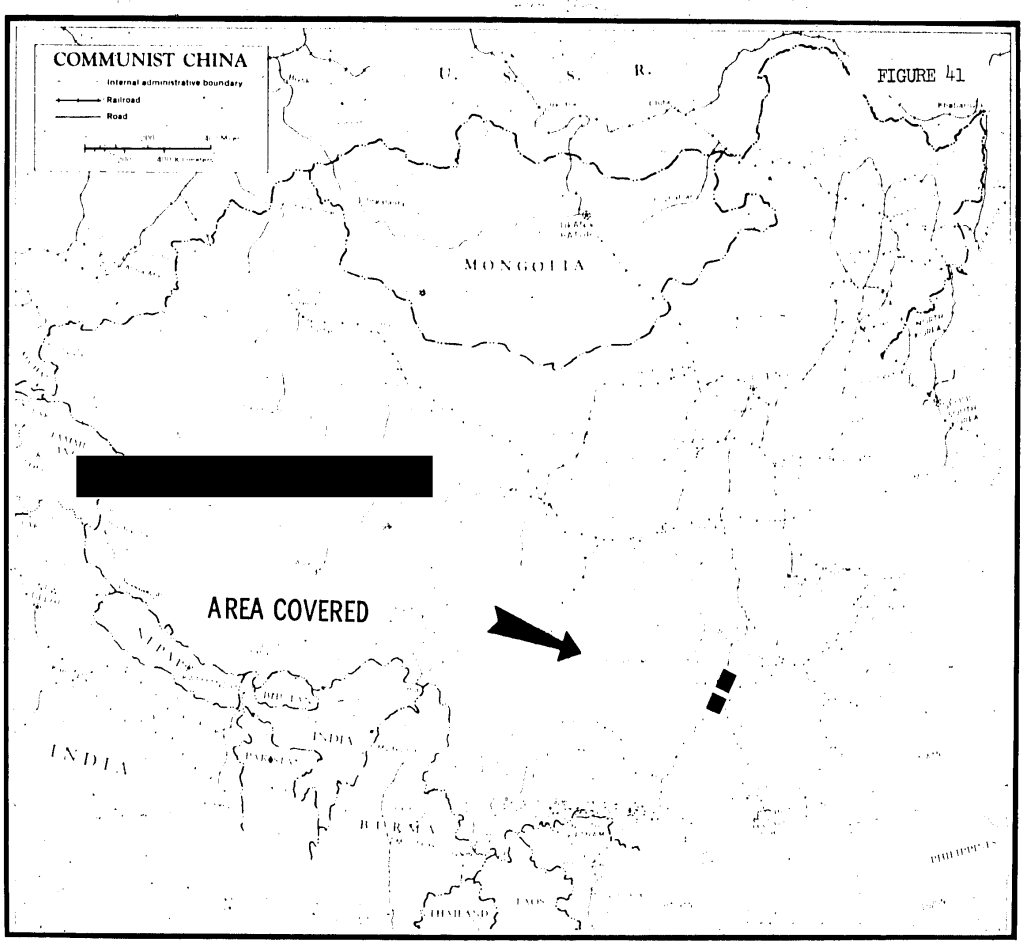

FIGURE 41

25X1D

TOP SECRET RUFF

TOP SECRET RUFF

TOS - 9178/65
FIR - 5028/65

TOP SECRET RUFF

TCS - 9178/65
CIA/PIR-5028/65

CIA, PHOTOGRAPHIC INTELLIGENCE DIVISION

25X1D

Approximately 160 miles of the Cheng Chou - P'ing Hsiang Rail Line from 28 49N - 113 04E to 26 54N - 112 36E was covered on [redacted] 25X1D [redacted].

The results of this study are presented in the following table. The location and direction of each train is annotated on the accompanying maps.

NO.	TYPE	LOCATION	DIRECTION	SPEED	NO. CARS
1	Passenger	28 49N - 113 04E	N	0	*
2	Freight	28 36N - 113 02E	N	0	43
3	Freight	28 36N - 113 02E	S	28	45
4	Freight	28 18N - 112 57E	N	0	44
5	Freight	27 59N - 112 59E	S	0	64
6	Freight	27 55N - 113 03E	N	0	50
7	Freight	27 48N - 113 09E	N	27	40
8	Freight	27 40N - 113 06E	N	32	53
9	Freight	27 23N - 113 03E	S	0	37
10	Freight	27 21N - 113 00E	N	25	41
11	Freight	27 15N - 112 55E	N	30	34
12	Freight	26 56N - 112 43E	S	28	43
13	Passenger	26 54N - 112 37E	N	0	*
14	Passenger	26 54N - 112 36E	S	0	*

* Could not be determined.

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